

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Canceled)
2. (Previously Presented): A front end compiler system for generating code to be used by an execution environment, said front end system comprising:
 - a metadata module that compiles information to produce metadata information;
 - a code module that compiles information to produces executable instructions; and
 - wherein the front end compiler consumes information from a native source code file and metadata information produced by the front end compiler.
3. (Previously Presented): A front end compiler system for generating code to be used by an execution environment, said front end system comprising:
 - a metadata module that compiles information to produce metadata information;
 - a code module that compiles information to produces executable instructions; and
 - wherein the metadata information and executable instructions are the result of compiling a source file in a first language and the front end compiler consumes metadata information produced by a different front end compiler as a result of compiling a source file in a second language.
4. (Original) A system for compiling a computer program, the program written in a native source code language, the system comprising:
 - a plurality of front end compilers, wherein each front end compiler is associated with a native source code language, and wherein at least one front end compiler is associated with a different native source code language than one other front end compiler;
 - each front end compiler compiles common language information in addition to native source code; and
 - each front end compiler produces a common language file that can be consumed by a runtime environment that is targeted for a particular machine.
5. (Original) A system as defined in claim 4 wherein the runtime environment comprises:

a loader for loading the common language file into the runtime environment; and
a layout engine for examining the common language file and determining the layout for
classes and objects used at runtime.

6. (Original) A system as defined in claim 5 wherein the runtime environment further
comprises:

a stack walker that keeps track of a call stack during runtime; and
a garbage collector for managing memory allocation during runtime.

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Previously Presented): A computer readable medium having stored thereon a data
structure comprising a common language library describing functions for use in other
programming language files, the common language library represented in a common language,
and wherein at least one of the programming language files is written in one native source code
language and at least one other programming language file is written in a different programming
language.

17. (Original) A method of compiling a computer program written in a native source
language and having an import statement that imports a common language file, said method
comprising:

parsing the computer program;

examining each statement during the parsing act and determining if the statement is an
import statement related to the common language file;

if the statement relates to the common language file, reading the common language file into a symbol table;

if the statement relates to a native language symbol table entry, adding the information into the symbol table; and

if the statement relates to output generation, supplying the statement to a output generator.

18. (Original) A method as defined in claim 17 wherein the common language file may be imported by different source language files.

19. (Original) A method as defined in claim 17 wherein the common language file may be imported by a procedural source language file and an object oriented source language file.

20. (Original) A method as defined in claim 17 wherein the computer program is written in a procedural programming language and the common language file may be imported by an object oriented source language files.

21. (Original) A method as defined in claim 17 wherein the output generator produces a second common language file wherein the second common language file is different from the imported common language file.

22. (Original) A method as defined in claim 21 wherein the second common language file has a metadata section and a common language instructions section.

23. (Original) A method as defined in claim 22 wherein the act of reading the common library file into a symbol table further comprises reading the metadata into the symbol table.

24. (Original) A computer program product readable by a computer, the product encoding instructions for executing a computer process for compiling a source language file, wherein the source language file comprises an import statement relating to a common library file, said process comprising:

determining that the source language file has an import statement relating to a common library file;

reading information from the common library file into a symbol table; and

compiling the source language file using the symbol table.